

Title (en)
INSTALLATION COMPRISING A PRESSURIZED WATER NUCLEAR REACTOR WITH A COOLING SYSTEM ESPECIALLY SUITABLE FOR THE PRIMARY CIRCUIT

Publication
EP 0079281 B1 19851009 (FR)

Application
EP 82402034 A 19821105

Priority
FR 8120721 A 19811105

Abstract (en)
[origin: EP0079281A1] 1. Installation comprising a Pressurized Water Nuclear Reactor, this reactor being disposed inside a safety enclosure (24) and equipped with a device for cooling the primary circuit, for effecting and maintaining a cold shutdown of this reactor, this device comprising at least one pump (40) and at least one heat exchanger (42), arranged outside the safety enclosure of the reactor, the heat exchanger (42) receiving water from the primary circuit in order to cool this water, via a by-pass pipe (32, 33), on which are arranged at least two valves (38, 50), the opening of which, in the event of a cold shutdown of the reactor, allows primary water to flow in the heat exchanger (42) by means of the pump (40), characterised in that the heat exchanger (42) and the pump (40) are arranged inside an isolatable room (22) adjacent to the safety enclosure (24), having, in common with this enclosure, a wall (25) provided with at least one opening (26, 27) which can be sealed in a leaktight manner, and possessing, on at least one of its walls which are not common to the safety enclosure (24), an opening (30), which can be sealed in a leaktight manner, for bringing the room (22) into communication with the space outside the enclosure (24), and two openings (31a and 31b), which can also be sealed, for bringing the room (22) into communication with a ventilation circuit, at least one duct (56), which can be closed by a valve (57), bringing the room (22) into communication with the sump of the safety enclosure (24).

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US5428652A; EP0377494A1; FR2594253A1; EP0139527A1; WO9304480A1

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